

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>Fee</b>	6. SURFACE: <b>Fee</b>
1A. TYPE OF WORK:    DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>	
B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <b>N/A</b>	
2. NAME OF OPERATOR: <b>XTO Energy, Inc.</b>				9. WELL NAME and NUMBER: <b>COP 16-8-18-11</b>	
3. ADDRESS OF OPERATOR: <b>2700 Farmington Ave. B</b> CITY <b>Farmington</b> STATE <b>NM</b> ZIP <b>87401</b>			PHONE NUMBER: <b>(505) 324-1090</b>	10. FIELD AND POOL, OR WILDCAT: <b>Ferron Sandstone</b>	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: <b>1210' FNL x 325' FWL</b> <i>493487X    39.435685</i> AT PROPOSED PRODUCING ZONE: <b>same</b> <i>4364921Y    -111.075682</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 18 16S 8E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Approximately 17 miles Northwest of Huntington, Ut</b>				12. COUNTY: <b>Emery</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>325'</b>		16. NUMBER OF ACRES IN LEASE: <b>6707.23</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>See basis</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>3000'</b>		19. PROPOSED DEPTH: <b>7,000</b>		20. BOND DESCRIPTION: <b>UTB-000138</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>9432' Ground Elevation</b>		22. APPROXIMATE DATE WORK WILL START: <b>1/23/2009</b>		23. ESTIMATED DURATION: <b>2 weeks</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
14.75"	10.75"	J-55	40.5#	2,350	CBM light wt - lead	+/- 435 sx	4.15 ft3/sx    10.5 ppg
14.75"	10.75"	J-55	40.5#	2,350	Type V - tail	+/- 500 sx	1.61 ft3/sx    14.2 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg1 Lead	+/- 80 sx	4.15 ft3/sx    10.5 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg1 Tail	+/- 140 sx	1.81 ft3/sx    13.5 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg2 Lead	+/- 135 sx	4.15 ft3/sx    10.5 ppg
9.875"	7.625"	N-80	26.4#	5,000	CBM lt wt - Cont Lead	+/- 125 sx	4.15 ft3/sx    10.5 ppg
9.875"	7.625"	N-80	26.4#	5,000	CBM lt wt - Cont Tail	+/- 180 sx	1.81 ft3/sx    13.5 ppg

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN  <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Kelly K. Small    TITLE Regulatory Compliance Tech

SIGNATURE *Kelly K. Small*    DATE 10/23/2008

(This space for State use only)

API NUMBER ASSIGNED: 43015-30761

Approved by the  
Utah Division of  
Oil, Gas and Mining

APPROVAL:  
Date: 01-22-09  
By: *[Signature]*

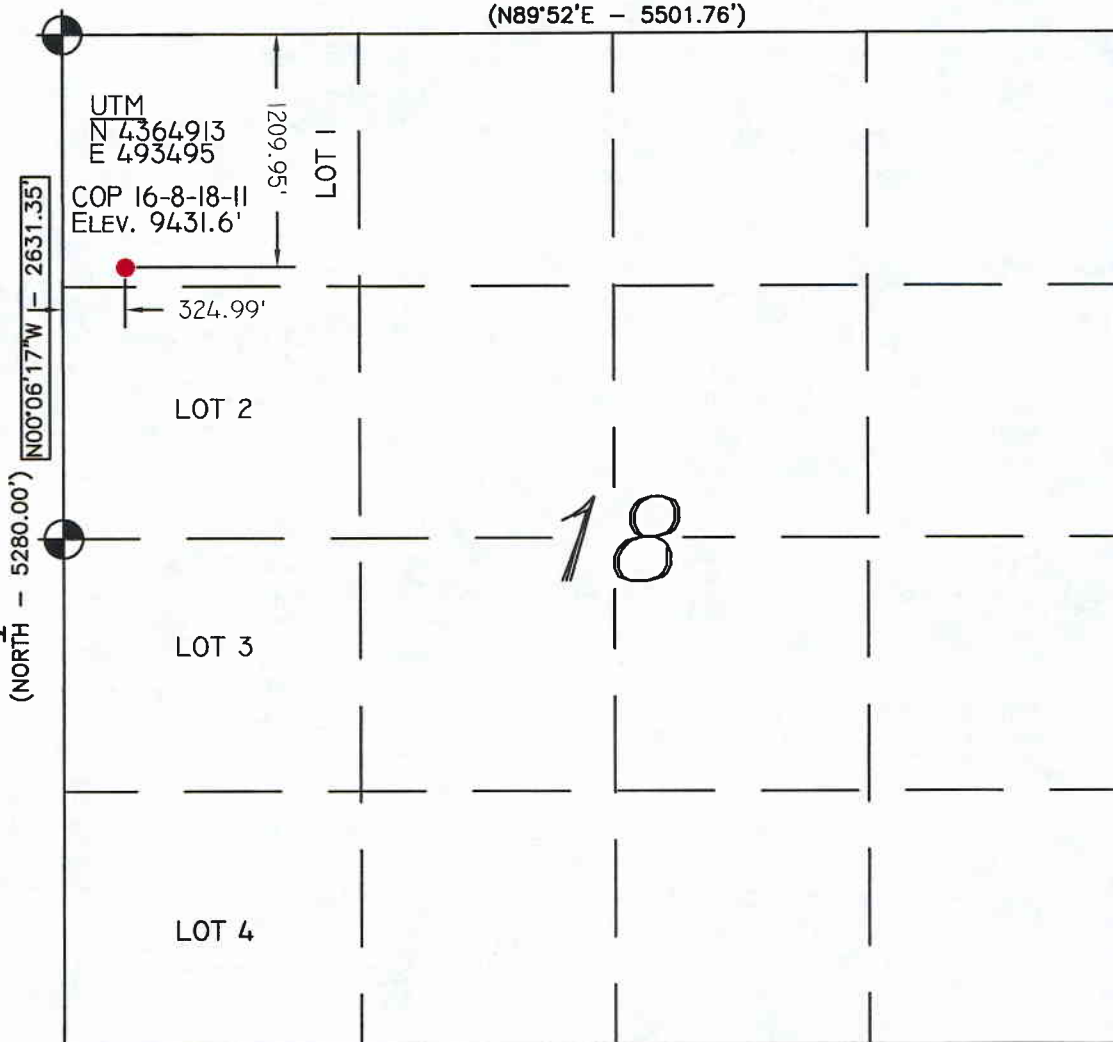
**RECEIVED**  
**OCT 27 2008**

DIV. OF OIL, GAS & MINING

# Range 8 East

(N89°52'E - 5501.76')

Township 16 South



## Legend

- Drill Hole Location
- ⊕ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Rock Pile
- ( ) GLO
- GPS Measured

## NOTES:

1. UTM and Latitude / Longitude Coordinates are derived using a GPS Pathfinder and are shown in NAD 27 Datum.

LAT / LONG  
39°26'08.218" N  
111°04'32.111" W

## Location:

The well location was determined using a Trimble 5700 GPS survey grade unit.

## Basis of Bearing:

The Basis of Bearing is GPS Measured.

## GLO Bearing:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

## Basis of Elevation:

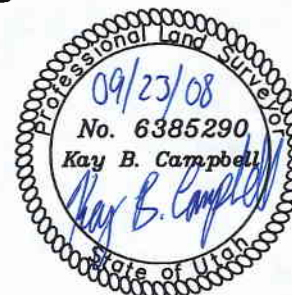
Basis of Elevation of 9694.0' being at the Southeast Section corner of Section 36, Township 15 South, Range 7 East, Salt Lake Base & Meridian, as shown on the Hiawatha Quadrangle 7.5 Minute Series Map.

## Description of Location:

Proposed Drill Hole located in (Lot 1) NW/4 NW/4 Section 18, T16S, R8E, S.L.B.&M., being South 1209.95' from North Line and East 324.99' from West Line of Section 18, T16S, R8E, Salt Lake Base & Meridian.

## Surveyor's Certificate:

I, Kay B. Campbell, a Professional Land Surveyor, holding Certificate 6385290 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



## GRAPHIC SCALE

0 500' 1000'  
( IN FEET )  
1 inch = 1000 ft.



## TALON RESOURCES, INC.

615 North 400 East P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail taloneetv.net



COP 16-8-18-11  
Section 18, T16S, R8E, S.L.B.&M.  
Emery County, Utah

Drawn By: N. BUTKOVICH	Checked By: L.W.J./K.B.C.
Drawing No. A-1	Date: 9/22/08
	Scale: 1" = 1000'
Sheet 1 of 4	Job No. 3818



October 23, 2008

Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

RE: COP 16-8-18-11

Dear Diana:

In reference to the State Oil & Gas Conservation rule R649-3-3, XTO is requesting an exception location to be granted on the COP 16-8-18-11.

XTO has worked diligently with COP Coal Development to come to an agreement as to where the initial location could be placed. Due to the landowner's concern of the Hiawatha Seam, the well bore has been staked as a non standard location. XTO Energy Inc. respectfully requests an exception location to be granted based on the above information.

There are no additional lease owners within 460' of the proposed location. If you have any questions, please contact me @ 505-333-3145.

Thank you,

A handwritten signature in cursive script that reads 'Kelly Small'.

Kelly Small  
Regulatory Compliance

# XTO Energy, Inc.

**COP 16-8-18-11**  
Drilling Data for APD  
October 21, 2008

Surface Location: 1210' FNL & 325' FWL, Sec. 18, T16S, R8E

Proposed TD: 7000'  
Approximate Elevation: 9432'

Objective: Ferron Coal  
KB Elevation: 9440'

## 1. Mud Program:

Interval	0'-2350'	2350'-7000'
Hole Size	14.75"	8.75"
Mud Type	Fresh Water/Spud Mud	Air/LSND/Gel Chemical
Weight	N/A	8.4-8.6
Viscosity	N/A	45-60
Water Loss	N/A	8-10

- Drill surface with fresh water/spud mud. If aeration becomes necessary, nipple up 20" rotating head.
- Air drill to TD using produced water for mist fluid unless excessive water flow is encountered then switch to water based mud. If mud is required, use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing.
- The blooie line will be approximately 100' in length and will extend in a straight line from below the rotating head as indicated in the BOP schematic. An

ter will be fixed to the end of the blooie line and set to  
rk to ignite and burn any produced hydrocarbons and/or  
e line is less than 100 feet in length or it requires the use  
se of topography or rig substructure, contact the UT  
riance.

*DBH*  
*ARK*

80 SX @ 4.15 = 332  
140 SX @ 1.81 = 254  
220 2.66 = 586  
45434

will be accomplished with a small pump, waterline, and  
ear the end of the blooie line to provide a continuous

will be stored on locati  
roblems that might reas

consistent with API RP:  
he surface casing and al

Surf w/ 3% tail 1069  
15% tail 1493  
0% to C 2671 tail 4788  
12% tail 5435'

d  
ler

# XTO Energy, Inc.

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- Air drill to TD using produced water for mist fluid unless excessive water flow is encountered then switch to water based mud. If mud is required, use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing.
- The blooie line will be approximately 100' in length and will extend in a straight line from below the rotating head as indicated in the BOP schematic. An automatic spark-type igniter will be fixed to the end of the blooie line and set to provide a continuous spark to ignite and burn any produced hydrocarbons and/or gasses. *Note: If the blooie line is less than 100 feet in length or it requires the use of targeted "tees" because of topography or rig substructure, contact the UT DOGM and request a variance.*
- If necessary, de-dusting will be accomplished with a small pump, waterline, and spray nipple positioned near the end of the blooie line to provide a continuous spray of water.
- Sufficient mud materials will be stored on location to maintain well control and combat lost circulation problems that might reasonably be expected.
- The BOP system will be consistent with API RP53 and Onshore Oil & Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment subject to

pressure will be conducted before drilling the casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing shoe and will remain in use until the well is completed or abandoned. Ram preventers shall be inspected and operated daily. Annular preventers shall be inspected and operated weekly to ensure good mechanical working order. The inspections and tests shall be recorded in the drilling log and daily drilling report. See the attached BOP and choke manifold schematic.

## 2. Casing Program:

- a. Surface Casing set @ 2350' in a 14.75" hole. (8.34 ppg mud)

10.75, 40.5 #/ft, J-55, ST&C, New, ( 10.05" ID, 9.894" Drift)					
Collapse Press	Burst Press	Joint Strength	SF Collapse	SF Burst	SF Tension
1580	3130	420	1.55	3.07	4.41

- b. Production Casing set @ 7000' in a 8.75" hole. (10.0 ppg)

5.5", 17 #/ft, J-55, LT&C, New, ( 4.892" I.D., 4.767" Drift)					
Collapse Press	Burst Press	Joint Strength	SF Collapse	SF Burst	SF Tension
4910	5320	229	1.62	1.75	1.92

- c. Contingency String Casing set @ 5000' in a 9.875" hole. (9.2 ppg mud)

7.625", 26.4 #/ft, N-80, LT&C, New, ( 6.969" I.D., 6.844" Drift)					
Collapse Press	Burst Press	Joint Strength	SF Collapse	SF Burst	SF Tension
3400	6020	490	1.421	2.517	3.712

Safety Factors based on vertical wellbore conditions with hydrostatic of mud, as called out above each table, with no backup used to calculate burst and collapse. Tension based on hanging weight in air.

If surface is set through mine workings, a DV/ECP tool will be used and the shoe will be tacked approximately four joints (170') below the mine floor and the second stage will be above the roof of the mine and cemented to surface.

Contingency string will be set if a fresh water flow is encountered that cannot be controlled with mud weight, or hole instability is encountered. If the use of a contingency string is needed, the 8-3/4" intermediate hole will be enlarged to 9-7/8" with the use of a hole opener or underreamer.

## 3. Well Heads:

- a. Casing Head: Larkin Fig 92 (or equivalent), 10-3/4" nominal, 3,000 psig WP (6,000 psig test) with 10-3/4" 8rnd thread on bottom and 11" x 3m Flange. NU

BOP and choke manifold (see attached schematic). Stack to consist of drilling spool with choke and kill lines, double rams with pipe rams on top, blind rams on bottom. Use cold water and test BOP to 250 psi low and 1,000 psi high. Record all tests on the IADC report. Inspect accumulator and closing unit to ensure that pre-charge pressures and oil levels are within API Specifications and report same on IADC report.

- b. Tubing Head: Larkin Fig 612 (or equivalent), 5,000 psig WP (5,000 psig test), 5 ½" SOW (or API 8 rnd female thread) on bottom, 7 1/16" 5,000 psig flange on top with two 3" LPOs.

4. Cement Program:

a. . Surface:

- i. Lead Cement: 435 sx of CBM Light Weight Cement with 10 pps Gilsonite and ¼ pps celloflake mixed at 10.5 ppg and 4.15 ft<sup>3</sup>/sx.
- ii. Tail Cement: 500 sx of Type V cement (or equivalent) containing 1% CaCl, ¼ pps Flocele, and 10% Cal Seal mixed at 14.2 ppg and 1.61 ft<sup>3</sup>/sx.
- iii. Slurry Volume is 2610 ft<sup>3</sup>, 200% excess of calculated annular volume to 2350'

b. Production:

- i. The production casing will be cemented using a DV/ECP tool. On the first stage there will be 2 (lead and tail) cement slurries. The lead cement (filler grade) volume will be calculated based on a maximum achievable top assuming formation pressure of 1,000 psi at the shoe. The tail cement will be calculated from TD to 300' above the Upper Ferron Sandstone as indicated on the formation tops table. Estimated top of cement at 5,367'. The second stage will be a single filler grade slurry to isolate the Emery SS. The DV/ECP will be placed in the Lower Bluegate Shale at ±4,450.

ii. Stage 1:

- 1. Lead Cement: 80 sx of CBM Light Weight Cement with 10 pps Gilsonite and ¼ pps celloflake mixed at 10.5 ppg and 4.15 ft<sup>3</sup>/sk.
- 2. Tail Cement: 140 sx of CBM Light Weight Cement with 10 pps Gilsonite and ¼ pps celloflake mixed at 13.5 ppg and 1.81 ft<sup>3</sup>/sk.
- 3. Slurry volume is 585 ft<sup>3</sup>, 40% excess of calculated annular volume to 1,000 psi hydrostatic over formation pressure.

iii. Stage 2:

1. Lead Cement: 135 sx of CBM Light Weight Cement with 10 pps Gilsonite and  $\frac{1}{4}$  pps celloflake mixed at 10.5 ppg and 4.15 ft<sup>3</sup>/sk.
2. Slurry volume is 560 ft<sup>3</sup>, 40% excess of calculated open hole annular volume.

c. Contingency String:

- i. Lead Cement: 125 sx of CBM Light Weight Cement with 10 pps Gilsonite and  $\frac{1}{4}$  pps celloflake mixed at 10.5 ppg and 4.15 ft<sup>3</sup>/sk.
- ii. Tail Cement: 180 sx of CBM Light Weight Cement with 10 pps Gilsonite and  $\frac{1}{4}$  pps celloflake mixed at 13.5 ppg and 1.81 ft<sup>3</sup>/sk.
- iii. Slurry volume is 845 ft<sup>3</sup>, 40% excess of calculated annular volume.
- iv. Actual volumes will be determined by setting depth and reported to the proper reporting agency prior to setting string.

a. Logging Program

- d. Mud logger: The mud logger will come on after surface pipe is set and will remain until TD. The mud will be logged in 10' intervals.
- e. Run Array Induction (if wet), compensated neutron, density, GR, caliper, SP (if wet), and Pe from TD to the bottom of the surface casing.

b. Formation Tops:

Formation	Well Depth
North Horn	OC
Price River	230
Castlegate	770
Blackhawk	970
Hiawatha Seam	1775
Starpoint SS	1785
Upper Bluegate Shale	2225
Emery SS	3160
Lower Bluegate Shale	4420
Top of Upper Ferron SS	6335
Top of Lower Ferron SS	6500
Tununk Shale	6695
Total Depth	7000



- f. No known oil zones will be penetrated.
- g. Gas bearing sandstones and coals will be penetrated from 6335' to 6695'.
- h. No known fresh water zones will be penetrated. The gas bearing sandstones and coals may contain in-situ water.
- i. This well bore should not penetrated any seams in previously mined areas.

The owner of record for the mine is CO-OP Mining Company, 3212 South State Street, Salt Lake City, Utah 84115-3825. The mine will be protected by setting an 10 3/4" surface casing through any adjacent mine seams, and cementing it as described above.

- j. Any prospectively valuable minerals and all fresh water zones encountered during drill will be recorded, cased, and cemented. If possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to the appropriate agency.
  - k. Maximum anticipated bottomhole pressure is anticipated to be less than 1,500 psi.
  - l. No abnormal pressure, abnormal temperature, H2S, or other hazardous conditions are known to exist.
- c. Company Personnel:

Name	Title	Office Phone	Mobile Phone
Brent H. Martin	Drilling Manager	505-333-3110	505-320-4074
Justin Niederhofer	Drilling Engineer	505.333.3199	505.320.0158
Bobby Jackson	Drilling Superintendent	505.333.3224	505.486.4706
Joshua Stark	Project Geologist	817.885.2240	817.565.7158
Leonard West	Reservoir Engineer	817.885.2800	

Operator Certification:

a. Permitting and Compliance:

Kelly Small  
Regulatory Compliance  
XTO Energy Inc.  
382 CR 3100  
Aztec NM 87410  
505-333-3100

b. Drilling and Completions:

Brent Martin  
XTO Energy Inc.  
382 CR 3100  
Aztec, NM 87410  
505-333-3100

c. Certification:

I hereby certify that, I or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or XTO Energy Inc., are responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 23<sup>rd</sup> day of October, 2008.

Signature: \_\_\_\_\_

*Kelly H. Small*  
Kelly Small

## **Application for Permit to Drill Surface Use Plan**

Company: XTO Energy, Inc  
Well No: COP 16-8-18-11  
Location: 1210' FNL & 325' FWL, Section 18, T16S, R8E

### Thirteen Point Surface Use Plan

The dirt contractor will be provided an approved copy of the surface use plan of operations before starting construction.

#### 1. Existing Roads

- a. Proposed route to location: The proposed route to location is shown on Exhibit "A" and is from the Hiawatha Quadrangle 7.5 minute series USGS quadrangle map.
- b. Location of proposed well in relation to town or other reference point: From Huntington, Ut. Go north on State Highway 10 1.9 miles to the intersection of County Road 302, at Huntington Lake turn Left 10.7 miles to the old Mohrland mine site. Continue up canyon 3.1 miles to the top of Gentry Mountain. Turn left and enter through gate on private road. Continue south to fork in road and stay to the right. Continue 1.4 miles south on existing road. Turn right and well location is approx. 600'
- c. Contact the County Road Department for use of County Roads: County road permits will be researched and submitted if required.
- d. Plans for improvement and/or maintenance of existing roads: All existing roads within 1 mile of the drill site are shown on Exhibit "B". All roads that will be used to the well location will be maintained to their current conditions are better.
- e. Other Comments: None

#### 2. Planned Access Roads

- a. Location of Access Road: Starting from a point along an existing road in the NW/4 of Section 6, T16S, R8E.
- b. Length of New Road: 600' of road will need to be constructed to access this location. See Exhibit "C".
- c. Length of Existing Road to Upgrade: No existing roads should need upgrades to access this location.

- d. Maximum Disturbed Width: Typically new access roads require up to 60' of disturbed width which includes ROW for gas and water pipe lines and electric service.
- e. Travel Width of Access Road: 25' or less.
- f. Maximum Grade after Construction: Maximum grades will not exceed 10% after construction.
- g. Turnouts Planned: No Turnouts are planned at this time.
- h. Surface Materials: Only native materials will be used if additional construction is required. If necessary, gravel or rock maybe purchased and used to improve road conditions and travel.
- i. Drainage (crowning, ditching, culverts, etc.): Roads will be re-crowned and bar ditches, if necessary, will be located on either side. 18"-24" culverts will be installed as necessary.
- j. Cattle Guards: No cattle guards are planned at this time. If necessary, cattle guards will be specified in the stipulations.
- k. Length of new and/or existing roads which lie outside the lease or unit boundary for which a BLM/State/Fee right of way is required: None.
- l. Other:
  - i. Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the State of Utah in Advance.
  - ii. If a right-of-way is necessary, no surface disturbing activities shall take place on the subject right-of-way until the associated APD is approved. The holder will adhere to conditions of approval in the Surface Use Program of the approved APD, relevant to any right-of-way facilities.
  - iii. If a right-of-way is secured, boundary adjustments in the lease or unit shall automatically amend this right-of-way to include that portion of the facility no longer contained within the lease or unit. In the event of an automatic amendment to this right-of-way grant, the prior on-lease/unit conditions of approval of this facility will not be affected even though they would now apply to facilities outside of the lease/unit as a result of the boundary adjustment. Rental fees, if appropriate, shall be recalculated based on the conditions of this grant and the regulations in effect at the time of an automatic amendment.
  - iv. If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the State of Utah will process a change in

authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligations determined by the State of Utah.

- v. If the well is not productive, the access road will be rehabilitated or brought to Resource (Class III) Road Standards within 60 days of dismantling the rig. If upgraded, the access road must be maintained at these standards until the well is properly abandoned. If this time frame cannot be met, the Field Office Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells:

- a. On a map, show the location of all water, injection, disposal, producing and drilling wells within a one mile radius of the proposed well, and describe the status of each: See Exhibit "B".

4. Location of Production Facilities:

- a. On-Site facilities: Typical on-site facilities will consist of a wellhead, gas flow line, water flow line, artificial lifting system (pumping unit), 2 phase separator, gas measurement, water measurement, electronics, a heated enclosure/building for weather and environmental protection and chemical injection equipment (as required). All production and measurement shall conform to the provisions of 43 CFR § 3162.7 and Onshore Oil and Gas Order No. 4, if applicable.
- b. All permanent (in place for six months or longer) structures constructed or installed on the well site location will be painted a flat, non reflective color to match the standard environmental colors, as specified by the COA's in the APD. All facilities will be painted within six months of installation. Facilities required complying with the Occupational Safety and Health Act (OSHA) may be excluded.
- c. Off-site facilities: Off-site facilities are located at the CDP station and include compression, processing, separation, tanks, pits, electronics, and produced water disposal (SWD) well.
- d. Pipelines: The well will be produced into gas and water pipelines (sizes to be determined) and transported to existing pipelines. See Exhibit "C" for the proposed pipeline route.
- e. Power lines: Power lines are located underground in the same ROW as the water and gas pipelines.

5. Location and Type of Water Supply:

- a. All water required for drilling will be purchased from local municipal water supply. If possible, currently produced coal well water may also be used after receiving any necessary permits. Water will be trucked to location by a third party trucking company who specializes in water hauling.

- b. Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of land.

6. Source of Construction Material:

- a. Pad construction material will be obtained from (if the source is Federally owned, show location on a map): All construction material will be purchased from private land owners or from a commercial gravel/materials pit. The use of materials will conform to 43 CFR § 3610.2-3, if applicable.
- b. The use of materials under State of Utah jurisdiction will conform to 43CFR § 3610.2-3, if applicable.

7. Methods of Handling Waste Disposal:

- a. Describe the methods and locations proposed for safe containment and disposal of waste material, e.g. cuttings, produced water, garbage, sewage, chemicals, etc. The reserve pit will be located along the edge and within the boundaries of the designated well pad. The walls of the pit will be sloped at no greater than 2 to 1 and will be lined with a synthetic material of approximately 12 mills in thickness. The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. The amount of time the pit may remain open will typically be specified by the COA's. Once dry, the liner will be cut and removed at the mud line and the pit will be covered and buried in place.
- b. Trash must be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than the completion of drilling operations.
- c. Sewage from trailers and chemical portable toilets will be removed on a regular basis by a third party contractor and disposed of at an authorized sanitary waste facility.
- d. Any and all chemicals used during the drilling and completion of the well will be kept to a minimum and stored within the boundaries of the well pad. The third party chemical contractor will be responsible for containment and clean-up and removal of all spilled chemicals on location.

8. Ancillary Facilities:

- a. No ancillary facilities will be required during the drilling or completion of the well.

9. Well Site Layout:

- a. Depict the pit, rig, cut and fill, topsoil, etc. on a plat with a scale of at least 1"=50'. See Exhibit "D" & "E".
- b. All equipment and vehicles that will be used to drill and complete this well will remain within the boundaries of the approved well pad. Any equipment and or vehicles parked or

stored off the location will be considered trespassing on federal lands and will NOT be tolerated.

- c. Materials obtained from the construction of the location, like topsoil and vegetation will be stock piled as indicated and permitted by the approved APD. The stock piles themselves may be outside the approved boundaries of the well pad.

10. Plans for Restoration of the Surface:

- a. The top 6 inches of topsoil material will be removed from the location and stockpiled separately on Adjacent Land or as specified by the approved APD.
- b. Topsoil along the access road will be reserved in place adjacent to the road.
- c. Within 30-45 days after completion of well, all equipment that is not necessary for production shall be removed.
- d. The reserve pit and that portion of the location not needed for production will be reclaimed 90-120 days after completion of the well.
- e. Before any dirt work to restore the location takes place, the reserve pit must be ready for burial.
- f. All road surfacing will be removed prior to the rehabilitation of roads.
- g. Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.
- h. All disturbed areas will be re-contoured to replicate the natural slope.
- i. The stockpiled topsoil will be evenly distributed over the disturbed area.
- j. Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.
- k. Seed will broadcast or drilled between September and November, or at a time specified by the BLM and or state. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.
- l. The following seed mixture will be used: As specified conditions of approval.
- m. If necessary, an abandonment marker will be one of the following, as specified by the State of Utah:
  - i. At least four feet above ground level,
  - ii. At restored ground level, or
  - iii. Below ground level.

- iv. In any case the marker shall be inscribed with the following: operator name, lease number, well name and description (township, section, range, and either quarter-quarter or footages).

n. Additional requirements: None

11. Surface and Mineral Ownership:

The Surface is owned by C.O.P. Coal Development Co., 3212 South State Stree, Salt Lake City, UT 84115-3719, contact person Charles Renyolds, 435-687-2450. The minerals are leased by XTO Energy. Surface Use Agreement – See Exhibit “F”.

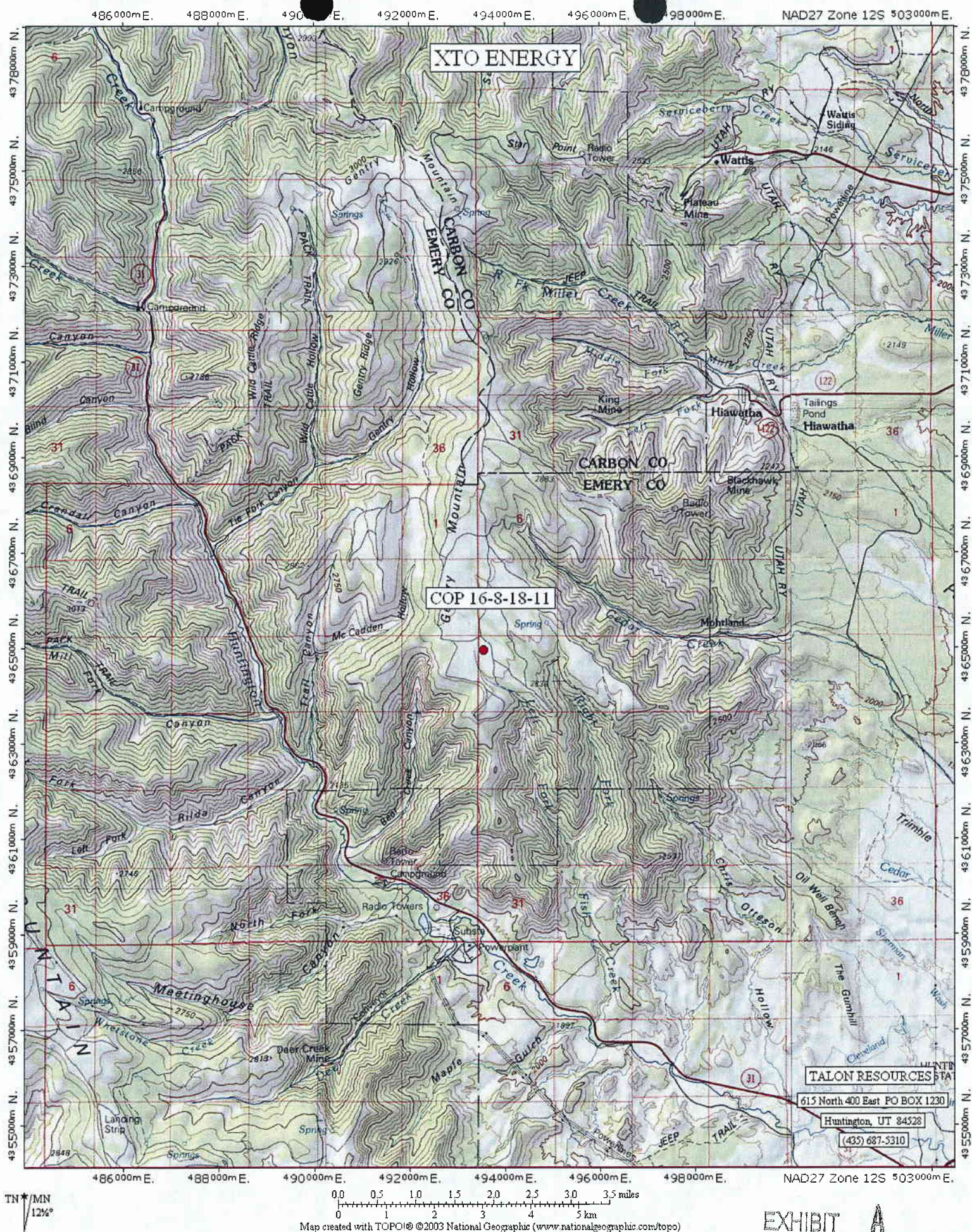
12. Other Information:

- a. Archeological Concerns: An approved contractor will submit the appropriate reports to the agency as required. Special stipulations will be included in the COA's of the approved APD.
- b. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the State of Utah Field Office. Within five (5) working days, the State of Utah will inform the operator as to:
  - i. Whether the materials appear eligible for the National Register of Historic Places;
  - ii. The mitigation measures the operator will likely have to undertake before the site can be used ( assuming in situ preservation is not necessary); and
  - iii. A time frame for the State of Utah to complete an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the State of Utah are correct and that mitigation is appropriate.
- c. If the operator wishes, at any time, to relocate activities to avoid the expenses of mitigation and/or the delays associated with this process, the State will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The State of Utah will provide technical and procedural guidelines for the conduct of mitigation. Upon Verification from the State of Utah that the required mitigation has been completed, the operator will then be allowed to resume construction.
- d. Threatened and Endangered Species Concerns:
  - i. An approved contractor will submit the appropriate reports as required. Special Stipulations will be included in the COA's of the approved APD.



- e. Wildlife Seasonal Restrictions: Current wildlife restrictions and closure dates are specified in the BLM's Environment Impact Statement.



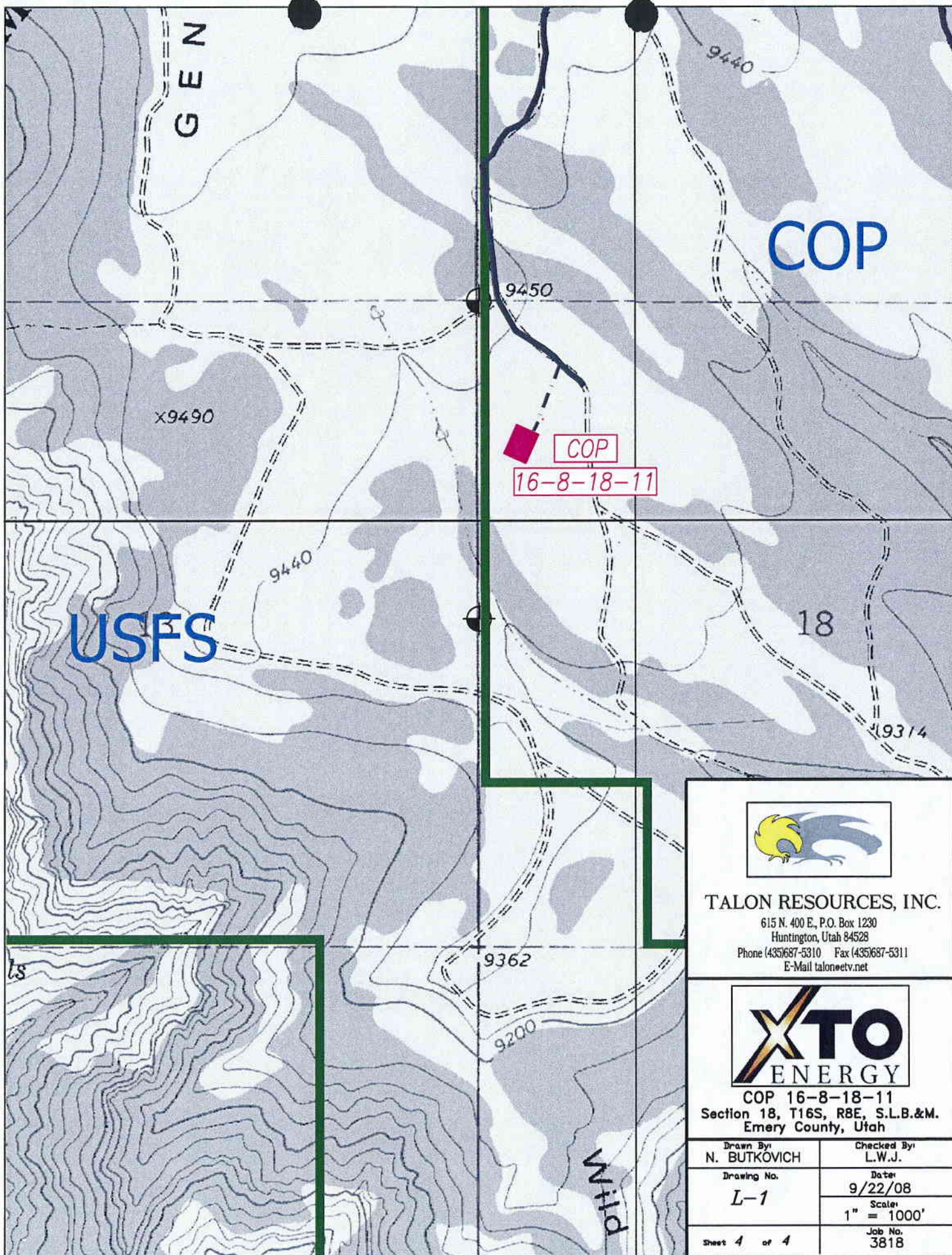


EXHIBIT









**TALON RESOURCES, INC.**

615 N. 400 E., P.O. Box 1230  
Huntington, Utah 84528

Phone (435)687-5310 Fax (435)687-5311  
E-Mail talonnetv.net



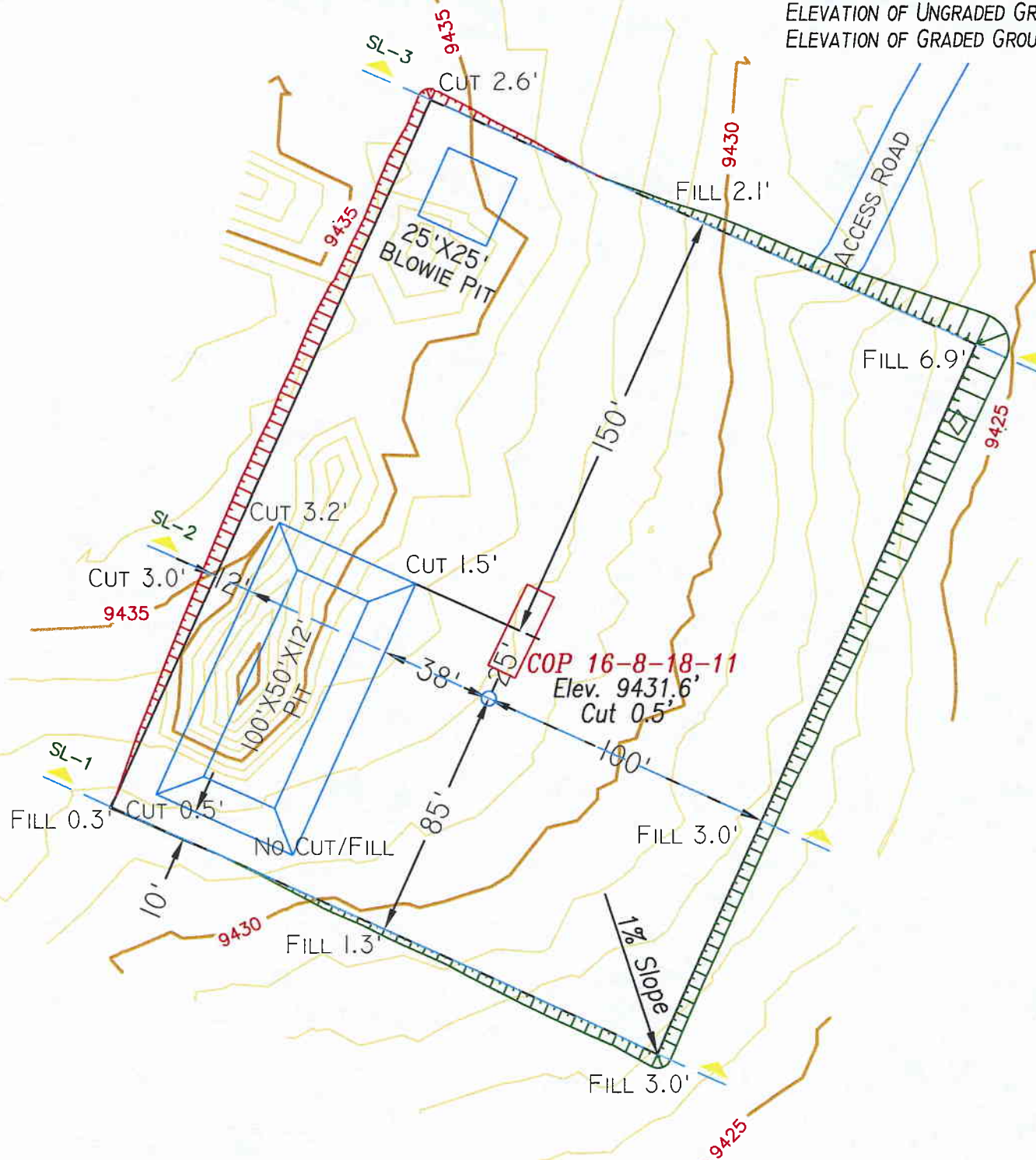
**COP 16-8-18-11**  
**Section 18, T16S, R8E, S.L.B.&M.**  
**Emery County, Utah**

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>L-1</b>	Date: <b>9/22/08</b>
	Scale: <b>1" = 1000'</b>
Sheet <b>4</b> of <b>4</b>	Job No. <b>3818</b>

EXHIBIT C



ELEVATION OF UNGRADED GROUND AT LOCATION STAKE = 9431.6'  
ELEVATION OF GRADED GROUND AT LOCATION STAKE = 9431.1'

**TALON RESOURCES, INC.**

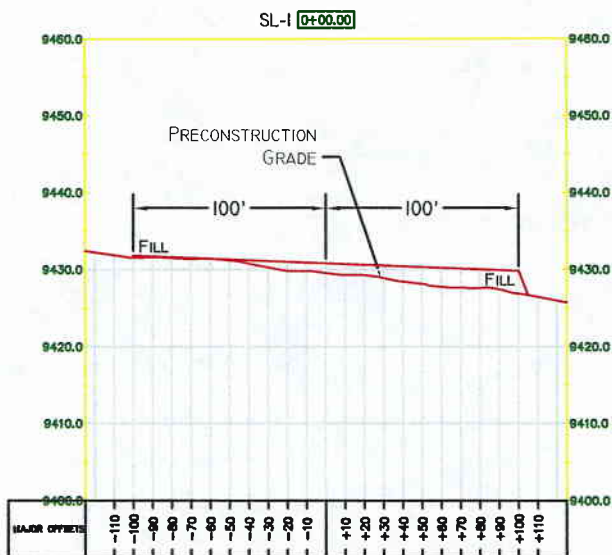
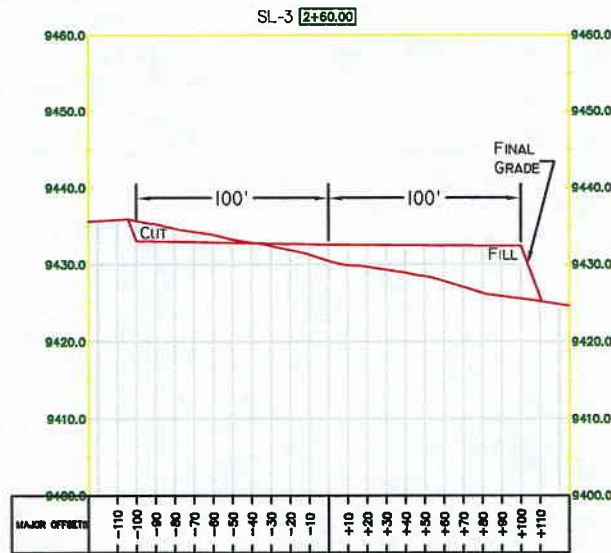
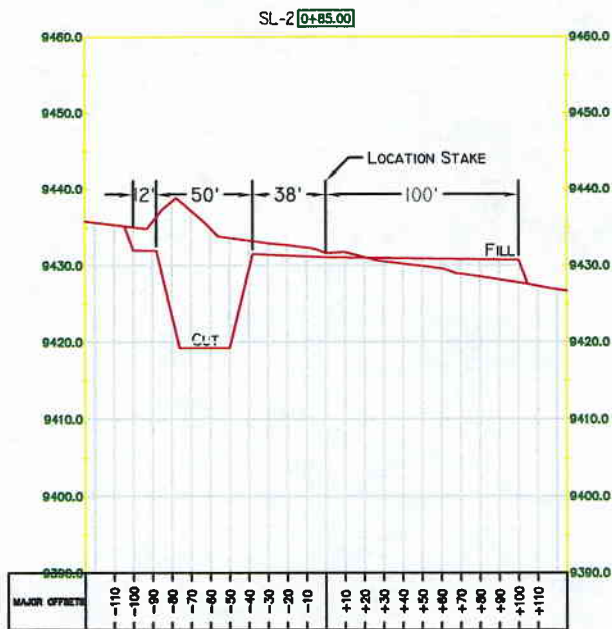
**615 North 400 East P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail [talom@etv.net](mailto:talom@etv.net)**



LOCATION LAYOUT  
Section 18, T16S, R8E, S.L.B.&M.  
COP 16-8-18-11

Drawn By: N. BUTKOVICH	Checked By: L.W.J.
Drawing No. <i>A-2</i>	Date: 9/22/08
	Scale: 1" = 50'
Sheet <i>2</i> of <i>4</i>	Job No. 38118

# EXHIBIT



SLOPE = 1 1/2 : 1  
(EXCEPT PIT)  
PIT SLOPE = 1 : 1

1" = 10'  
X-Section  
Scale  
1" = 40'



**TALON RESOURCES, INC.**

615 North 400 East P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail talon etv.net



**TYPICAL CROSS SECTION**  
Section 18, T16S, R8E, S.L.B.&M.  
COP 16-8-18-11

Drawn By: N. BUTKOVICH	Checked By: L.W.J.
Drawing No. C-1	Date: 9/22/08
	Scale: 1" = 100'
Sheet 3 of 4	Job No. 3818

APPROXIMATE YARDAGES

(6") TOPSOIL STRIPPING = 965 CU. YDS.  
TOTAL CUT (INCLUDING PIT) = 3,655 CU. YDS.  
TOTAL FILL = 2,310 CU. YDS.

Once Recorded Please Return To:  
Ryan M. O'Kelley  
810 Houston Street  
Fort Worth, Texas 76102

**MEMORANDUM OF SURFACE USE AND DAMAGE AGREEMENT**

COP 16-8-18-11

KNOW ALL MEN BY THESE PRESENTS:

That **C.O.P. Coal Development Company**, a Utah Corporation, whose address is 3212 South State Street, Salt Lake City, Utah, 84115-3825, ("**Grantor**") and **XTO Energy Inc.**, a Delaware Corporation, whose address is 810 Houston Street, Fort Worth, TX 76012-6298 ("**Grantee**") have entered into a Surface Use and Damage Agreement dated effective as of the 24th day of September, 2008 ("**Agreement**").

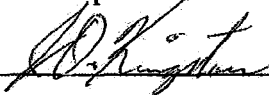
The Agreement, which is unrecorded and may be found in the files of Grantor and Grantee, is adopted herein and made a part hereof by reference to the same full extent as if all its provisions were copied in full in this Memorandum.

Pursuant to the terms of the Agreement, Grantor grants to Grantee and all of its parent, subsidiary, or other affiliated companies, their agents, employees and others authorized by them a nonexclusive private right of way upon and across Grantor's property located in the SW/4SW/4 of Section 6, W/2W/2 of Section 7, and the NW/4 of Section 18, Township 16 South, Range 8 East, S.L.B. &M., Emery County, Utah, in the location as approximately shown on **Exhibit A**, attached hereto and made a part hereof, for roads, gathering system pipelines, transmission pipelines, power lines, appurtenances, valves, metering equipment, cathodic protection, wires, conduits, cables, and associated facilities, related to its Operations ("**Property**"), for the purpose of access to and from mineral leases and rights it owns and operates underlying and in the vicinity of the Property ("**Leases**"), maintenance and operation of the Leases, production from the Leases and other purposes related to conducting oil and gas operations related to the Leases.

This Memorandum shall be binding on and inure to the benefit of Grantor and Grantee, their respective heirs, administrators, successors and assigns.

The parties hereto have executed this Memorandum as of the dates of the respective acknowledgements.

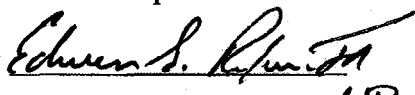
**GRANTOR:**  
**C.O.P. COAL DEVELOPMENT COMPANY**  
A Utah Corporation

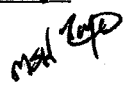
By: 

J.O. Kingston,

President

**GRANTEE:**  
**XTO ENERGY INC.**,  
A Delaware corporation

By: 

Edwin S. Ryan, Jr. 

Senior Vice President – Land  
Administration

State of Utah                                }  
   }  
County of Salt Lake                        }

I, the undersigned authority, a Notary Public in and for said County in said State, hereby certify that J.O. Kingston, whose name as President of **C.O.P. Coal Development Company**, is signed to the foregoing Memorandum of Surface Use And Damage Agreement, and who is known to me, acknowledged before me on this day that, being informed of the contents of the instrument, he, as authorized agent and with full authority, executed the same voluntarily and as the act of said corporation.

Given under my hand and official seal, this the 26 day of Sept., 2008.

Carl E. Kingston  
Notary Public

My Commission Expires \_\_\_\_\_



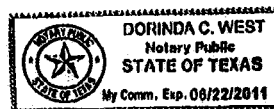
State of Texas                                }  
   }  
County of Tarrant                            }

I, the undersigned authority, a Notary Public in and for said County in said State, hereby certify that Edwin S. Ryan, Jr., whose name as Senior Vice President – Land Administration of **XTO Energy Inc.**, is signed to the foregoing Memorandum of Surface Use And Damage Agreement, and who is known to me, acknowledged before me on this day that, being informed of the contents of the instrument, he, as authorized agent and with full authority, executed the same voluntarily and as the act of said corporation.

Given under my hand and official seal, this the 2th day of September, 2008.

Dorinda C. West  
Notary Public

My Commission Expires \_\_\_\_\_





# EXHIBIT "A"

EXHIBIT

THE FOLLOWING DESCRIBED RIGHT-OF-WAY  
IS LOCATED IN EMERY COUNTY  
STATE OF UTAH  
SECTIONS 6, 7, & 18, T18S, R10E, S.L.B.#M.

## ACCESS AND UTILITY CORRIDOR

0.50' ROW-OF-SURVEY-ON-OWN  
SIDE OF THE FOLLOWING DESCRIBED CORRIDOR.

25' ROW-OF-SURVEY-ON-OWN  
SIDE OF THE FOLLOWING DESCRIBED CORRIDOR.

## ALIGNMENT LINE DATA

LINE #	LENGTH	BEARING
L1	129.71	30° 02' 40"E
L2	179.81	31° 13' 05"W
L3	168.86	31° 10' 06"W
L4	167.20	33° 37' 07"W
L5	324.80	53° 14' 11"W
L6	22.71	88° 41' 39"E
L7	136.20	30° 40' 30"E
L8	477.73	321° 34' 44"E
L9	168.86	31° 10' 06"E
L10	72.71	32° 02' 08"E
L11	102.81	58° 15' 16"W
L12	252.82	31° 11' 34"W
L13	201.31	101° 16' 23"W
L14	382.81	55° 02' 14"E
L15	148.31	53° 05' 45"W
L16	273.31	31° 04' 20"W
L17	168.86	31° 10' 06"E
L18	118.81	58° 43' 17"W
L19	244.78	31° 27' 38"W
L20	313.31	32° 05' 48"E
L21	342.57	30° 34' 22"W
L22	333.47	33° 34' 16"W
L23	61.51	30° 38' 38"W
L24	112.81	30° 18' 21"W
L25	68.81	33° 38' 06"W
L26	128.81	30° 28' 06"W
L27	132.47	88° 42' 23"W
L28	148.81	30° 34' 46"E
L29	194.81	30° 03' 11"E
L30	742.21	57° 25' 18"E
L31	218.31	31° 18' 13"E
L32	283.81	32° 18' 08"E
L33	278.81	68° 48' 48"E
L34	111.48	30° 38' 34"E
L35	68.31	33° 38' 14"E
L36	227.31	30° 38' 44"W
L37	227.31	31° 05' 08"W
L38	38.81	31° 34' 31"W
L39	73.31	32° 37' 37"W

## PARCEL LINE DATA

SEGMENT	LENGTH	DIRECTION
L40	307.00	302° 41' 52"E
L41	327.00	52° 16' 38"W
L42	307.00	102° 41' 52"W
L43	327.00	102° 16' 38"E

## Surveyor's Certificate:

I, Kay B. Campbell, a Professional Land Surveyor, holding Certificate 6385290 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.

## P.O.B. #1

A 30' R.O.W. located in the SW1/4 SW1/4 of Section 6, the W1/2 W1/2 of Section 7, and the NW1/4 NW1/4 of Section 18, T18S, R10E, S.L.B.#M, Emery County, Utah. Being 27' on each side of the following described centerline: Beginning at a point N00°07'31"E, 858.44' along the West Section Line of said Section 6 and East 740.59' from the Southwest Section Corner of said Section 6, said point more or less on the edge of an existing XTO ROW corridor; thence S06°02'43"E, 8.346' Rods (157.71'); thence S01°13'45"W, 18.834' Rods (179.89'); thence S16°15'59"W, 6.537' Rods (168.86'); thence S31°37'07"W, 6.538' Rods (167.59'); thence S03°14'11"W, 19.748' Rods (326.64'); thence S03°41'33"E, 1.368' Rods (22.77') to the North Section Line of said Section 7; thence S03°41'33"E, 8.236' Rods (136.25'); thence S21°34'44"E, 28.533' Rods (477.73'); thence S15°14'33"E, 6.897' Rods (168.86'); thence S02°02'06"E, 4.412' Rods (72.79'); thence S08°15'16"W, 6.219' Rods (162.61'); thence S14°11'34"W, 36.118' Rods (393.82'); thence S21°16'25"W, 12.284' Rods (261.37'); thence S05°02'14"E, 23.282' Rods (382.84'); thence S03°03'45"W, 8.368' Rods (148.31'); thence S16°40'20"W, 16.699' Rods (273.33'); thence S07°16'53"E, 11.343' Rods (183.89'); thence S06°43'17"W, 6.776' Rods (118.81'); thence S21°27'38"W, 14.834' Rods (244.78'); thence S02°36'49"E, 18.982' Rods (313.21'); thence S10°34'23"W, 28.762' Rods (342.57'); thence S25°34'16"W, 14.158' Rods (233.47'); thence S30°26'25"W, 3.732' Rods (61.57'); thence S06°10'21"W, 6.788' Rods (112.81'); thence S37°39'38"W, 6.008' Rods (99.89'); thence S26°23'09"W, 7.694' Rods (128.81'); thence S42°04'25"W, 8.628' Rods (132.47'); thence S16°34'46"E, 8.518' Rods (140.41'); thence S04°03'11"E, 11.884' Rods (194.89'); thence S01°29'34"E, 44.983' Rods (742.22'); thence S17°19'13"E, 1.796' Rods (29.63') to the North Section Line of said Section 18; thence S23°39'08"E, 17.206' Rods (283.50'); thence S07°45'40"E, 16.396' Rods (270.54'); thence S30°39'34"E, 6.736' Rods (111.48'); thence S33°38'14"E, 4.836' Rods (84.59'); thence S38°38'44"W, 13.738' Rods (227.31'); thence S19°33'45"W, 13.788' Rods (227.37'); thence S13°34'21"W, 2.481' Rods (35.99'); thence S27°32'32"W, 4.385' Rods (75.32') more or less to the North side of proposed well site 16-8-18-11.

Length = 469.322 Rods (7743.51') 8.889 Acres

## P.O.B. #2

A parcel of land around the well site location of the COP 16-8-18-11 with a surface location in the NW1/4 NW1/4 of Section 18, T18S, R10E, S.L.B.#M, Emery County, Utah. Beginning at a point S08°06'17"E, 954.22' along the West Section Line of said Section 18 and East 269.43' from the Northwest Section Corner of said Section 18; thence S05°01'05"E, 267.88'; thence S04°58'36"W, 327.88'; thence N03°41'05"W, 267.88'; thence N04°10'38"E, 327.88' to the point of beginning.

Containing 2.88 Acres



## NOTES:

1. BASIS OF BEARING IS DERIVED FROM G.P.S., USING A TRIMBLE 5700 SURVEY GRADE UNIT.

Prepared For:  
XTO ENERGY  
Surface Use (COP)  
Prepared By:  
Talon Resources, Inc.

Company / Agency	Office Location	Submission Date
XTO Energy		



**Talon Resources, Inc.**  
603 North 400 East  
P.O. Box 1259  
Blanding, Utah 86809  
Phone (435) 667-0200  
Fax (435) 667-0211

**REVISIONS**

DATE	BY
9/29/08	RLB



SECTIONS 6, 7, & 18, T18S, R10E,  
EMERY COUNTY, UTAH, S.L.B.#M.

DRAWN BY: N. BURKOWICH	CHECKED BY: LNU / KBC
DRAWING: XTO-3819	DATE: 7/24/08
JOB NUMBER: 3726/3819	SHEET: 1 OF 1

**LEGEND**

Gross Cop (Found) 

G.L.O. ( )

CPS Measured

COP 16-8-18-11  
SECTIONS 6, 7, & 18-16S-8E  
EMERY COUNTY, UTAH

# XTO Energy

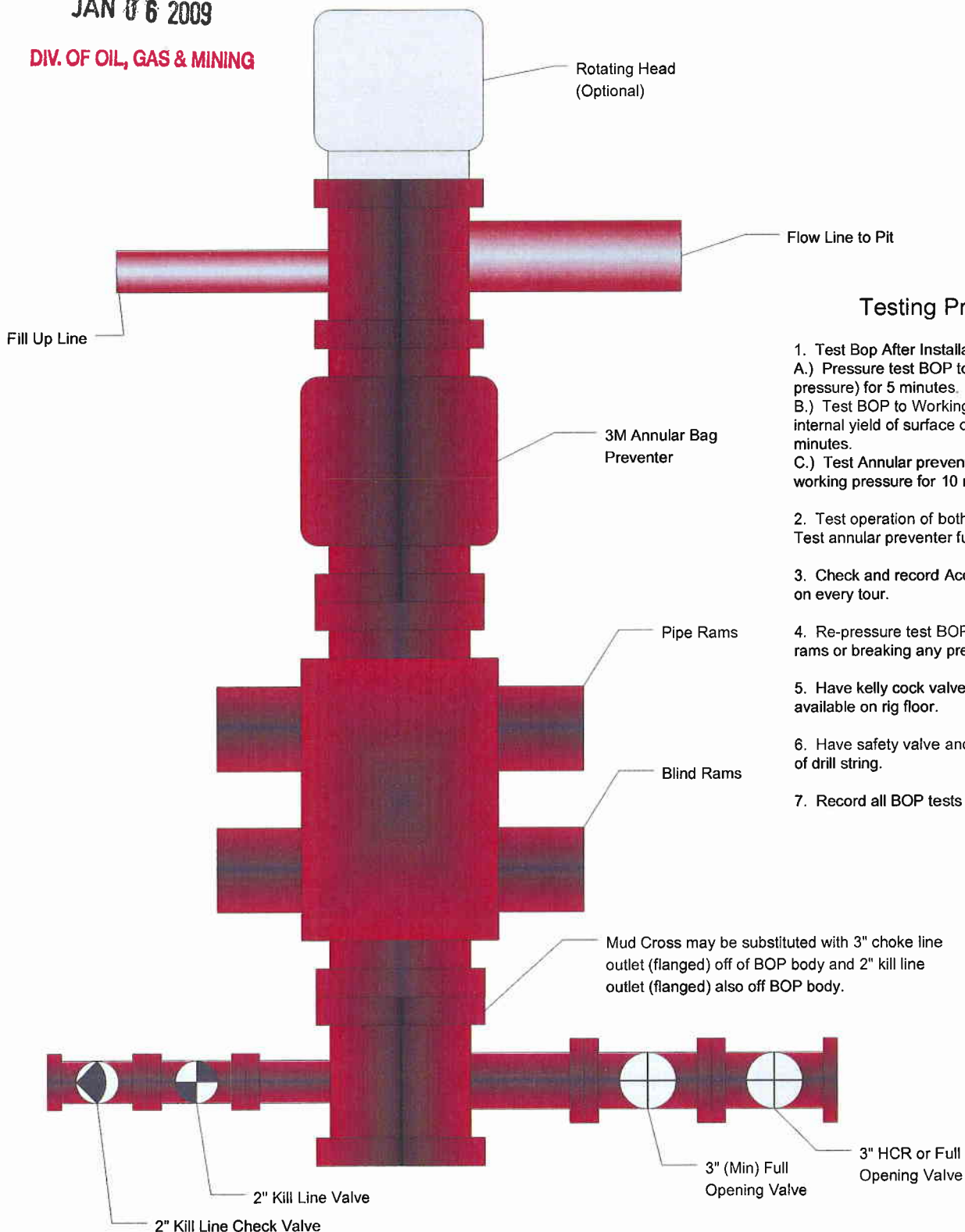
3M BOP Stack

11/8/2006

RECEIVED

JAN 06 2009

DIV. OF OIL, GAS & MINING



## Testing Procedure

1. Test Bop After Installation:
  - A.) Pressure test BOP to 200-300 psig (low pressure) for 5 minutes.
  - B.) Test BOP to Working pressure or 70% internal yield of surface casing for 10 minutes.
  - C.) Test Annular preventer to 50% of working pressure for 10 minutes.
2. Test operation of both rams on each trip. Test annular preventer function weekly.
3. Check and record Accumulator pressure on every tour.
4. Re-pressure test BOP after changing rams or breaking any pressure tested seal.
5. Have kelly cock valve with handle available on rig floor.
6. Have safety valve and subs to fit all sizes of drill string.
7. Record all BOP tests in IADC book.

# XTO Energy

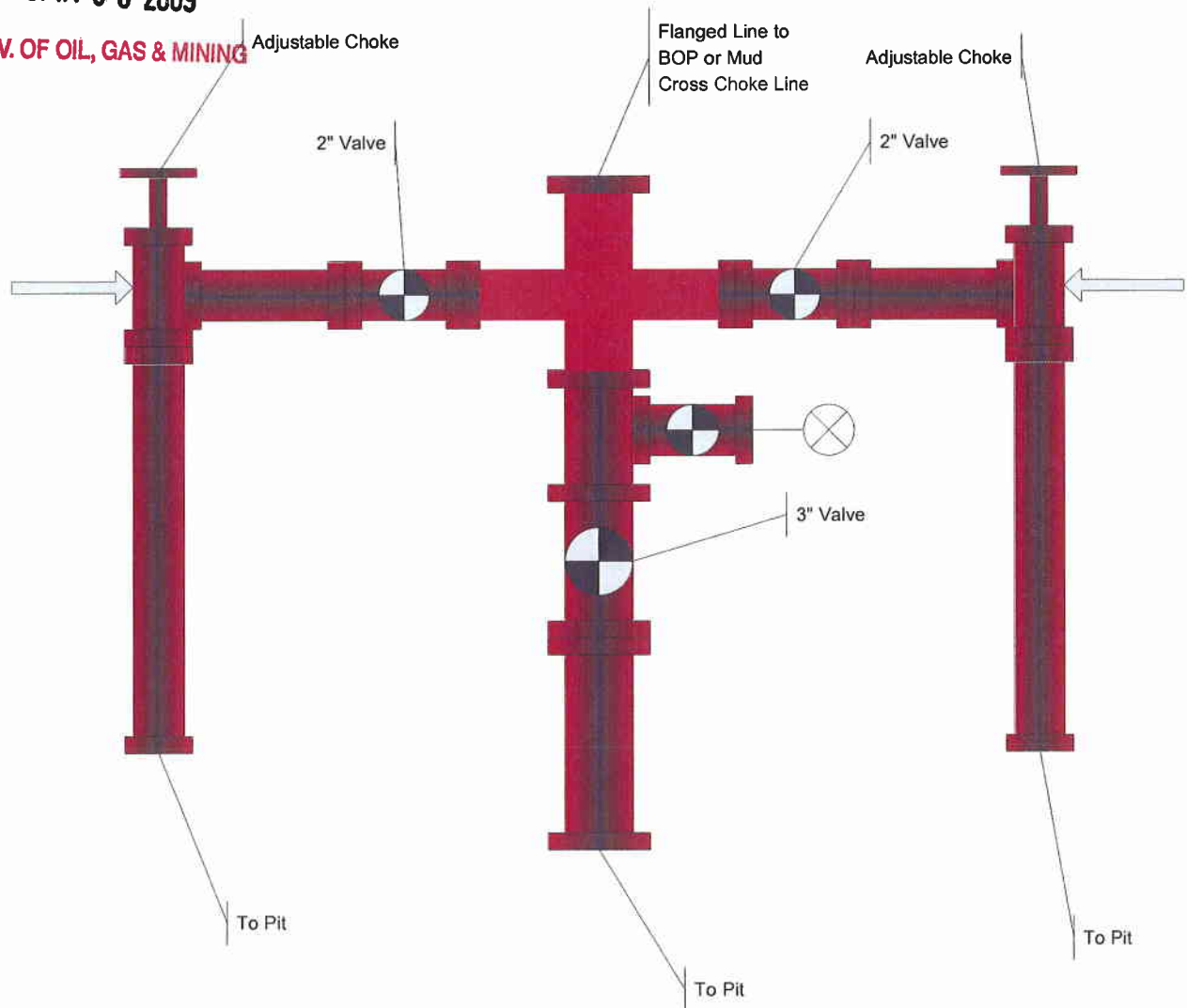
3M Choke  
Manifold

11/9/2006

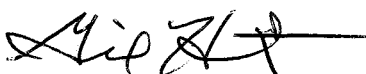
RECEIVED

JAN 06 2009

DIV. OF OIL, GAS & MINING



**STATE ACTIONS**  
**Resource Development Coordinating Committee**  
**Public Lands Policy Coordination Office**  
**5110 State Office Building**  
**SLC, UT 84114**  
**Phone No. 537-9230**

<b>1. State Agency</b> Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	<b>2. Approximate date project will start:</b>  Upon Approval or November 12, 2008
<b>3. Title of proposed action:</b> Application for Permit to Drill	
<b>4. Description of Project:</b>  XTO Energy, Inc. proposes to drill the COP 16-8-18-11 well (wildcat) on Fee lease, Emery County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
<b>5. Location and detailed map of land affected (site location map required, electronic GIS map preferred)</b> (include UTM coordinates where possible) (indicate county) 1210' FNL 325' FWL, NW/4 NW/4, Section 18, Township 16 South, Range 8 East, Emery County, Utah	
<b>6. Possible significant impacts likely to occur:</b> Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
<b>7. Identify local government affected</b> a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
<b>8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:</b> a. Has the representative and senator been contacted? N/A	
<b>9. Areawide clearinghouse(s) receiving state action:</b> (to be sent out by agency in block 1) Southeastern Utah Association of Government	
<b>10. For further information, contact:</b>    <b>Diana Mason</b> <b>Phone:</b> (801) 538-5312	<b>11. Signature and title of authorized officer</b>   Gil Hunt, Associate Director <b>Date:</b> October 28, 2008

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>Fee</b>		6. SURFACE: <b>Fee</b>	
1A. TYPE OF WORK:    DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>			
B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <b>N/A</b>			
2. NAME OF OPERATOR: <b>XTO Energy, Inc.</b>				9. WELL NAME and NUMBER: <b>COP 16-8-18-11</b>			
3. ADDRESS OF OPERATOR: <b>2700 Farmington Ave. B</b> CITY <b>Farmington</b> STATE <b>NM</b> ZIP <b>87401</b>				PHONE NUMBER: <b>(505) 324-1090</b>			
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>1210' FNL x 325' FWL</b> <i>493487x</i> <i>39.435685</i> AT PROPOSED PRODUCING ZONE: <b>same</b> <i>4364921y</i> <i>-111.075682</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 18 16S 8E S</b>			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Approximately 17 miles Northwest of Huntington, Ut</b>				12. COUNTY: <b>Emery</b>		13. STATE: <b>UTAH</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>325'</b>		16. NUMBER OF ACRES IN LEASE: <b>6707.23</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>Lse basis</b>			
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>3000'</b>		19. PROPOSED DEPTH: <b>7,000</b>		20. BOND DESCRIPTION: <b>UTB-000138</b>			
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>9432' Ground Elevation</b>		22. APPROXIMATE DATE WORK WILL START: <b>1/23/2009</b>		23. ESTIMATED DURATION: <b>2 weeks</b>			

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
14.75"	10.75"	J-55	40.5#	2,350	CBM light wt - lead	+/- 435 sx	4.15 ft3/sx 10.5 ppg
14.75"	10.75"	J-55	40.5#	2,350	Type V - tail	+/- 500 sx	1.61 ft3/sx 14.2 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg1 Lead	+/- 80 sx	4.15 ft3/sx 10.5 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg1 Tail	+/- 140 sx	1.81 ft3/sx 13.5 ppg
8.75"	5.5"	J-55	17.0#	7,000	CBM lt wt - Stg2 Lead	+/- 135 sx	4.15 ft3/sx 10.5 ppg
9.875"	7.625"	N-80	26.4#	5,000	CBM lt wt - Cont Lead	+/- 125 sx	4.15 ft3/sx 10.5 ppg
9.875"	7.625"	N-80	26.4#	5,000	CBM lt wt - Cont Tail	+/- 180 sx	1.81 ft3/sx 13.5 ppg

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Kelly K. Small    TITLE Regulatory Compliance Tech

SIGNATURE *Kelly K. Small*    DATE 10/23/2008

(This space for State use only)

API NUMBER ASSIGNED: 43-015-30761

APPROVAL:

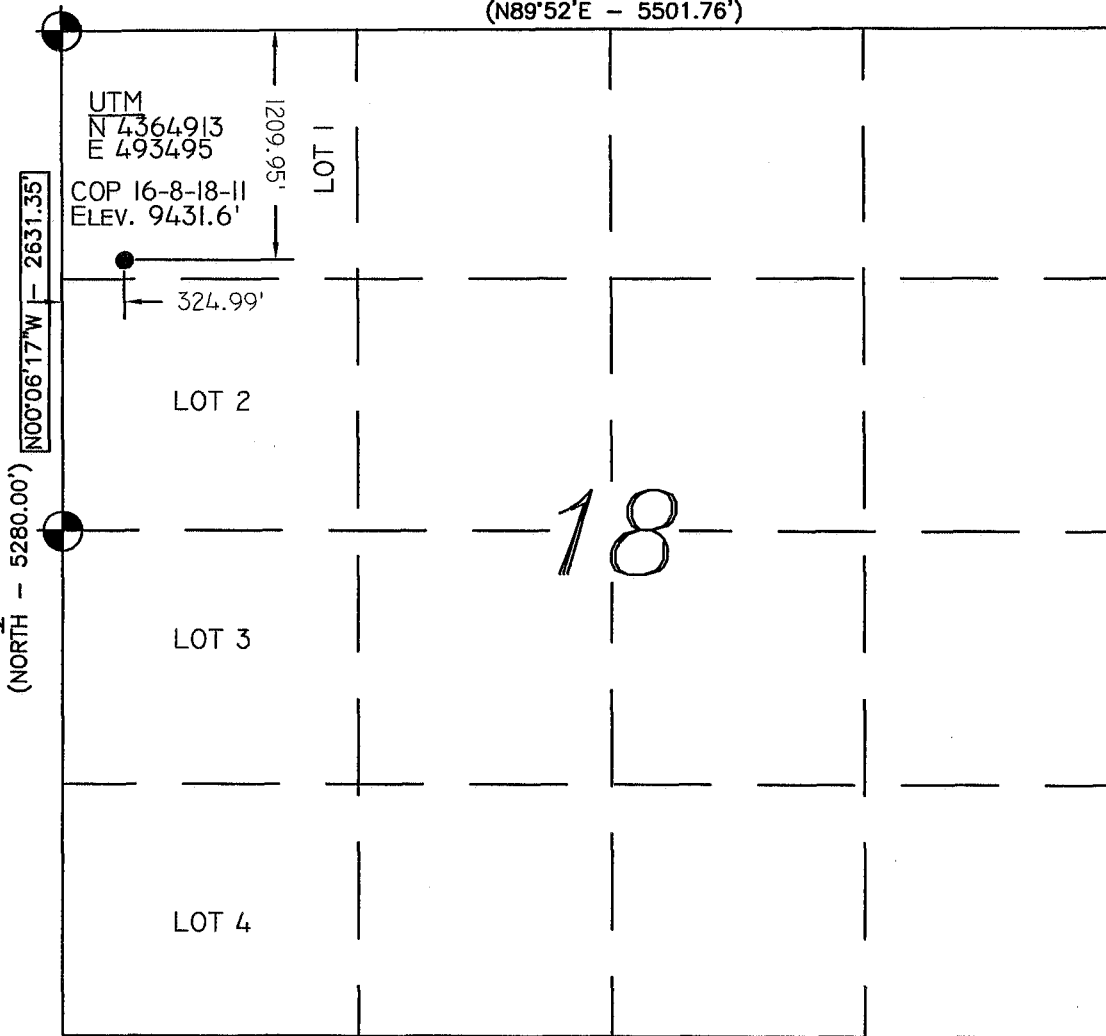
RECEIVED  
OCT 27 2008  
DIV. OF OIL, GAS & MINING

# Range 8 East

(N89°52'E - 5501.76')

ownship 16 South

(N00°06'17"W - 2631.35')



(N89°54'E - 5506.38')

## Legend

- Drill Hole Location
- ⊙ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Rock Pile
- ( ) GLO
- GPS Measured

## NOTES:

1. UTM and Latitude / Longitude Coordinates are derived using a GPS Pathfinder and are shown in NAD 27 Datum.

LAT / LONG  
39°26'08.218" N  
111°04'32.111" W

## Location:

The well location was determined using a Trimble 5700 GPS survey grade unit.

## Basis of Bearing:

The Basis of Bearing is GPS Measured.

## GLO Bearing:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

## Basis of Elevation:

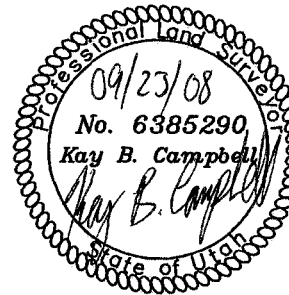
Basis of Elevation of 9694.0' being at the Southeast Section corner of Section 36, Township 15 South, Range 7 East, Salt Lake Base & Meridian, as shown on the Hiawatha Quadrangle 7.5 Minute Series Map.

## Description of Location:

Proposed Drill Hole located in (Lot 1) NW/4 NW/4 Section 18, T16S, R8E, S.L.B.&M., being South 1209.95' from North Line and East 324.99' from West Line of Section 18, T16S, R8E, Salt Lake Base & Meridian.

## Surveyor's Certificate:

I, Kay B. Campbell, a Professional Land Surveyor, holding Certificate 6385290 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



## GRAPHIC SCALE

0 500' 1000'  
( IN FEET )  
1 inch = 1000 ft.



## TALON RESOURCES, INC.

615 North 400 East P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail talonsetv.net

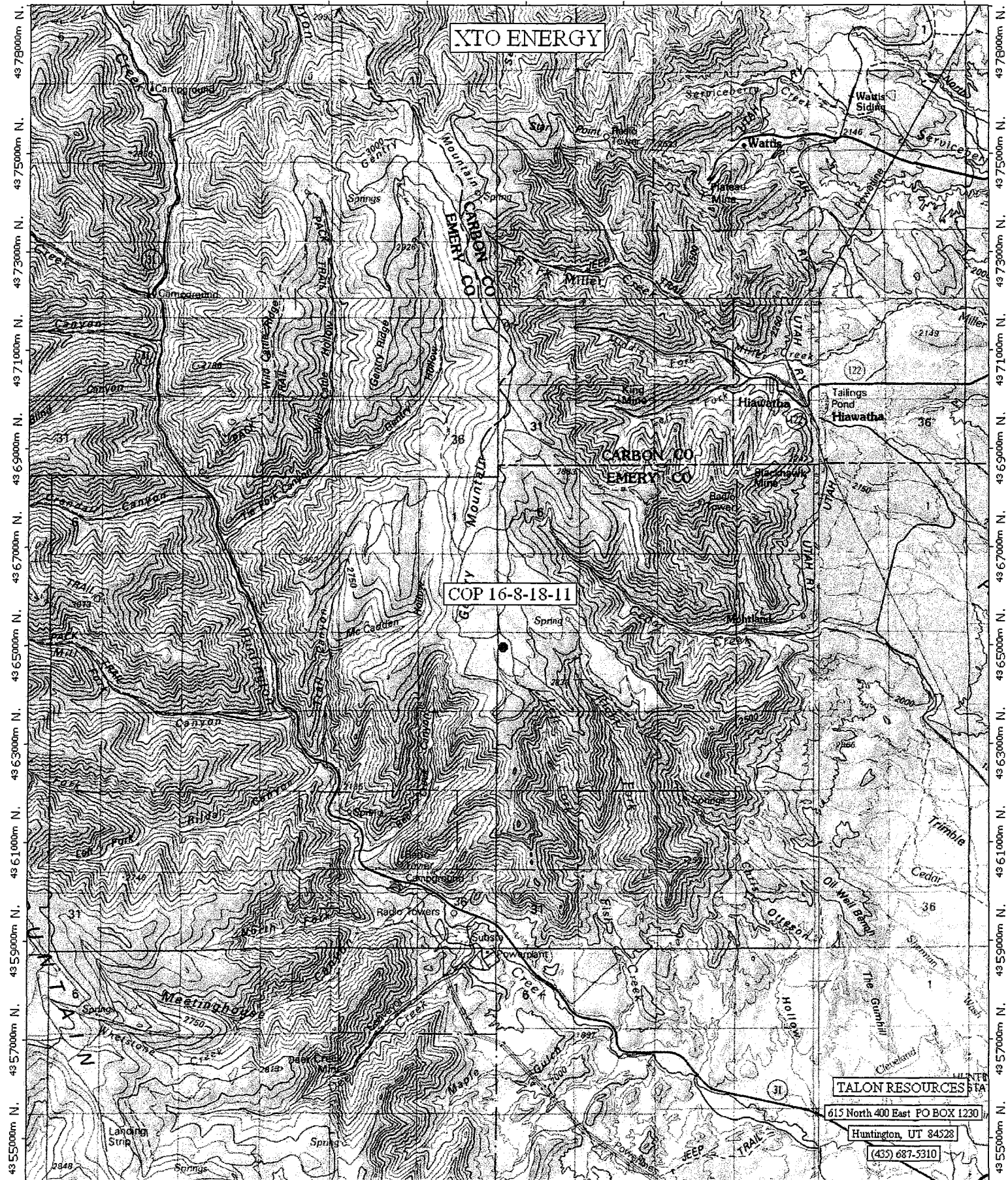


COP 16-8-18-11  
Section 18, T16S, R8E, S.L.B.&M.  
Emery County, Utah

Drawn By: N. BUTKOVICH	Checked By: L.W.J./K.B.C.
Drawing No. A-1	Date: 9/22/08
	Scale: 1" = 1000'
Sheet 1 of 4	Job No. 3818



486000m E. 488000m E. 490000m E. 492000m E. 494000m E. 496000m E. 498000m E. NAD27 Zone 12S 503000m E.



486000m E. 488000m E. 490000m E. 492000m E. 494000m E. 496000m E. 498000m E. NAD27 Zone 12S 503000m E.

TN/MN 12 1/2°  
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles  
0 1 2 3 4 5 km  
Map created with TOPOI® ©2003 National Geographic (www.nationalgeographic.com/topo)

EXHIBIT A

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/27/2008

API NO. ASSIGNED: 43-015-30761

WELL NAME: COP 16-8-18-11

OPERATOR: XTO ENERGY INC ( N2615 )

PHONE NUMBER: 505-324-1090

CONTACT: KELLY SMALL

PROPOSED LOCATION:

NWNW 18 160S 080E

SURFACE: 1210 FNL 0325 FWL

BOTTOM: 1210 FNL 0325 FWL

COUNTY: EMERY

LATITUDE: 39.43569 LONGITUDE: -111.0757

UTM SURF EASTINGS: 493487 NORTHINGS: 4364921

FIELD NAME: WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DED	1/21/09
Geology		
Surface		

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: FRSD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 104312762 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: 11/12/2008 )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.  
Unit: \_\_\_\_\_  
R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
R649-3-11. Directional Drill

COMMENTS: Needs Post (11-18-08)

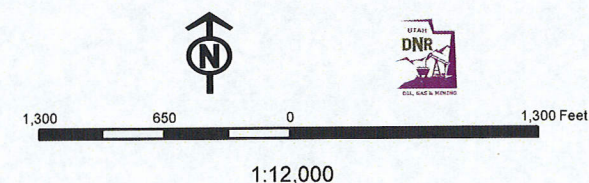
STIPULATIONS: 1- Spacing Strip  
2- STATEMENT OF BASIS  
3- SURFACE CASING CMT STRIP



API Number: 4301530761  
Well Name: COP 16-8-18-11  
Township 16.0 S Range 08.0 E Section 18  
Meridian: SLBM  
Operator: XTO ENERGY INC

Map Prepared:  
Map Produced by Diana Mason

- | Units        | Wells Query Events   |
|--------------|----------------------|
| STATUS       | ✕ <all other values> |
| ACTIVE       | ✕ <Null>             |
| EXPLORATORY  | ◆ APD                |
| GAS STORAGE  | ⊙ DRL                |
| NF PP OIL    | ⊙ GI                 |
| NF SECONDARY | ⊙ GS                 |
| PI OIL       | ✕ LA                 |
| PP GAS       | ⊕ NEW                |
| PP GEOTHERML | ⊙ OPS                |
| PP OIL       | ⊙ PA                 |
| SECONDARY    | ⊙ PGW                |
| TERMINATED   | ● POW                |
| Fields       | ⊙ RET                |
| STATUS       | ⊙ SGW                |
| ACTIVE       | ⊙ SOW                |
| COMBINED     | ⊙ TA                 |
| Sections     | ○ TW                 |
| Township     | ⊙ WD                 |
|              | ⊙ WI                 |
|              | ● WS                 |





# Application for Permit to Drill

## Statement of Basis

11/25/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
1177	43-015-30761-00-00		GW	P	No
<b>Operator</b>	XTO ENERGY INC	<b>Surface Owner-APD</b>			
<b>Well Name</b>	COP 16-8-18-11	<b>Unit</b>			
<b>Field</b>	WILDCAT	<b>Type of Work</b>			
<b>Location</b>	NWNW 18 16S 8E S 1210 FNL 325 FWL GPS Coord (UTM) 493487E 4364921N				

### Geologic Statement of Basis

This location is situated atop the Wasatch Plateau on Long Point on the Tertiary/Cretaceous age North Horn Formation. Despite being sited on a prominence, it is very likely that significant high quality ground water resources will be found in the strata below the location. The proposed location is a little over a mile from the Mohrland Mine portal. It is very possible that mine workings underlie the proposed location and this possibility must be researched with DOGM mining side personnel. The nearest surface waters are in Cedar Creek, which heads in the adjacent canyon to the north. Although a remote prospect, a water resource may be encountered in the sandy strata of the subdivided units of the Emery Sandstone Member, if they are being recharged by Cedar Creek as it flows over the strata. The Emery Sandstones are thought to thicken to the west and they are exposed about 3 miles to the east. The Wasatch Plateau rapidly adds column thickness along the plateau cliff line. A search of the Division of Water Rights records revealed that no underground water rights have been applied for within a mile of the location. The proposed cementing and casing program should be adequate to protect the potential groundwater resource, however, the operator should protect any interval of strata, which is a possible aquifer in the Emery Sandstone Member of the Mancos Shale. The Mohrland Mine is inactive but the Bear Creek/COOP mining group plans to mine beneath the area from the south, so they should be informed of drilling in their path as they mine northward.

Chris Kierst  
APD Evaluator

11/24/2008  
Date / Time

### Surface Statement of Basis

On-site evaluation completed November 18, 2008. In attendance: Bart Kettle-Division of Oil, Gas and Mining (DOGM), Dale Fuller-XTO, Bob Percell-XTO, Kelly Small-XTO, Mike McCandless-Emery County, Mark Reynolds-surface representation, and Allen Childs-Talon Resources

Proposed site is adequate for the planned drilling program. Reserve pit should contain an 16 mil or higher liner. Prior to installation pit shall be properly bedded to prevent rocks from puncturing liner. Reserve pit will require fencing to prevent the entrance of livestock and wildlife.

Top soil pile should be re-seeded immediately following construction of the well pad to prevent accelerated wind erosion of clay loam soils. Seed mixture should consist of quick establishing herbaceous species approved by the surface manager.

All drilling related traffic and equipment shall remain on permitted access road and well pad. It is recommended that signs reminding service providers to remain on approved access and well pads be placed along access road.

Bart Kettle  
Onsite Evaluator

11/18/2008  
Date / Time

---

# Application for Permit to Drill

## Statement of Basis

11/25/2008

Utah Division of Oil, Gas and Mining

Page 2

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### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** XTO ENERGY INC  
**Well Name** COP 16-8-18-11  
**API Number** 43-015-30761-0 **APD No** 1177 **Field/Unit** WILDCAT  
**Location:** 1/4,1/4 NWNW **Sec** 18 **Tw** 16S **Rng** 8E 1210 FNL 325 FWL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

Bart Kettle-Division of Oil, Gas and Mining (DOGM), Dale Fuller-XTO, Bob Percell-XTO, Kelly Small-XTO, Mike McCandless-Emerly County, Mark Reynolds-surface representation, and Allen Childs-Talon Resources

### **Regional/Local Setting & Topography**

Proposed project area is located ~17 mile northwest of Huntington, located in Emery County Utah. Project site is atop of the Wasatch Plateau on the eastern rim. Drainages flow into Huntington Creek within 10 miles and eventually to the Green River 60 miles away. Project site is located in a 20-24" precept zone in open grass/forb sageaspen flat. Regionally agriculture lands are located along the valley floor 15 miles to the southeast, with the exception of the Skyline drive portions of the Wasatch Plateau, the climate is arid rangelands dominated by Salt Scrub shrub lands and Pinion/Juniper woodlands. Soils in the region are generally poorly developed, and moderate too highly erosive. At the project site vegetation is dominated by mountain sage/Aspen, soils are moderately deep clay loams underlain by limestone bedrock. No perennial water sources were observed immediately adjacent to the proposed project area.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Wildlife Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
1.4	<b>Width</b> 200 <b>Length</b> 235		NHORN

#### **Ancillary Facilities**

### **Waste Management Plan Adequate? Y**

### **Environmental Parameters**

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

##### **Flora:**

Grass: Columbian needle grass, needle and thread grass, squirrel tail, June grass

Forbs: Silver lupine

Shrubs: Mountain Sage, Wyoming sage, common snowberry, common juniper, Oregon grape and buckwheat spp.

Trees: Aspen

**Fauna:** Nesting habitat for raptors and song birds, host of small mammals. Summer ranger for big game including mule deer, elk, mountain lion, bear and bobcat.

#### **Soil Type and Characteristics**

Dark brown clay loams, many limestone fragments

Erosion Issues Y

Soils may be prone to wind erosion once disturbed, immediate re-seeding recommended.

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Prompt re-seeding of top soil recommended to prevent accelerated wind erosion.

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

**Reserve Pit**

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	>20	10	
Affected Populations	<10	0	
Presence Nearby Utility Conduits	Not Present	0	
Final Score		25	1 Sensitivity Level

**Characteristics / Requirements**

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N

**Other Observations / Comments**

Emery County requesting a Level III Application for the collection system.

Bart Kettle  
Evaluator

11/18/2008  
Date / Time

**From:** Chris Kierst  
**To:** Daron Haddock; Wayne Western  
**Subject:** XTO Energy, Inc. COP 16-8-18-11 well, NW NW S.18, T.16 S., R.8 E., Emery County, Utah

API # 4301530761, 1210' From North Line, 325' From West Line.

Please be advised that this well is proposed for the cited location and for drilling to 7,000' TD. This location is apparently within the GIS mapped (as currently depicted in G:\SGID\coal\st024\aoarpa) Bear Canyon Mine lease boundaries and may impact mine workings in some fashion. XTO proposes setting 10.75" Surface Casing at 2,350'. More detailed information is available in the well file currently being processed by the Oil & Gas staff.

## Utah Division of Water Rights



There are no features in the query area.

Click on the back button to try again

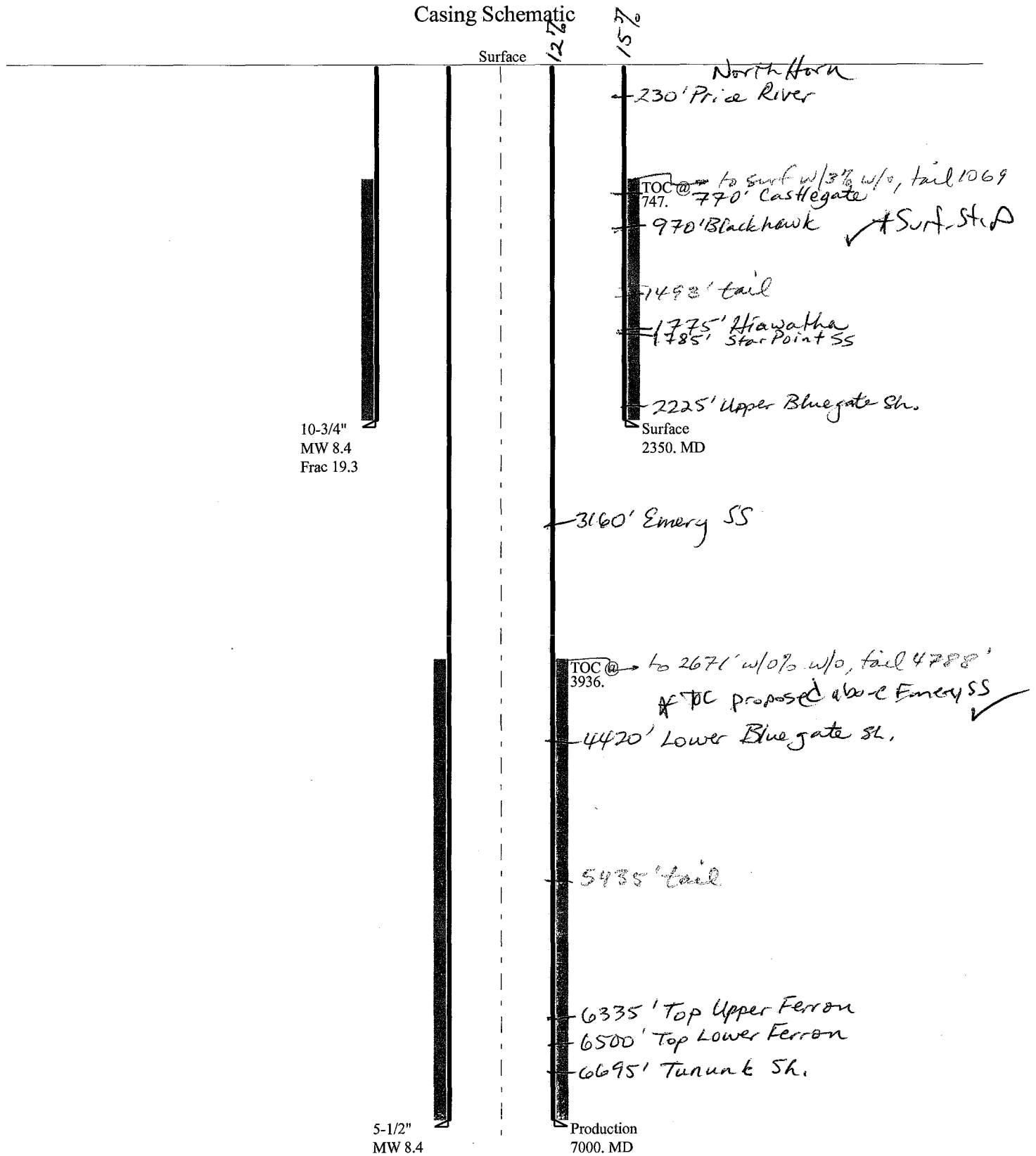
Please direct questions and comments regarding the map server to: [leeschler@utah.gov](mailto:leeschler@utah.gov).

[back](#)[close](#)

Utah Division of Water Rights | 1594 West North Temple Suite 220, P.O. Box 146300, Salt Lake City, Utah 84114-6300 | 801-538-7240  
[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#)

43015307610000 COP 16-8-18-11

Casing Schematic





Well name:	43015307610000 COP 16-8-18-11	
Operator:	XTO Energy Inc.	
String type:	Surface	Project ID: 43-015-30761-0000
Location:	Emery County	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 98 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 150 ft

Cement top: 747 ft

**Burst**

Max anticipated surface pressure: 2,068 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,350 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 2,060 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 7,000 ft  
Next mud weight: 8.400 ppg  
Next setting BHP: 3,055 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,350 ft  
Injection pressure: 2,350 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2350	10.75	40.50	J-55	ST&C	2350	2350	9.925	1294.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1025	1580	1.541	2350	3130	1.33	95	420	4.41 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801-538-5357  
FAX: 801-359-3940

Date: December 29, 2008  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS:**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

43015307610000 COP 16-8-18-11

Operator: XTO Energy Inc.

String type: Production

Project ID:

43-015-30761-0000

Location: Emery County

**Design parameters:****Collapse**

Mud weight: 8.400 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No

Surface temperature: 65 °F

Bottom hole temperature: 163 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 368 ft

Cement top: 3,936 ft

**Burst**

Max anticipated surface

pressure: 1,515 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 3,055 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on air weight.

Neutral point: 6,108 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7000	5.5	17.00	J-55	LT&C	7000	7000	4.767	913.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3055	4910	1.607	3055	5320	1.74	119	247	2.08 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil,Gas & MiningPhone: 801-538-5357  
FAX: 801-359-3940Date: December 29,2008  
Salt Lake City, Utah**ENGINEERING STIPULATIONS:**

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

## BOPE REVIEW

XTO COP 16-8-18-11

43-015-30761-0000

## INPUT

Well Name

XTO COP 16-8-18-11 43-015-30761-0000

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

String 1	String 2		
10 3/4	5 1/2		
2350	7000		
500	2350		
8.4	8.4	✓	o.k.
0	3000		
3130	5320		
1500	4.1 ppg	?	com

Calculations	String 1	10 3/4 "	
Max BHP [psi]	.052*Setting Depth*MW =	1026	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	744	NO
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	509	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	619	NO Depth drilled to in Area - o.k.
Required Casing/BOPE Test Pressure		2191	psi
*Max Pressure Allowed @ Previous Casing Shoe =		500	psi *Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	3058	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2218	YES
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1518	YES ✓
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	2035	YES ✓
Required Casing/BOPE Test Pressure		3000	psi
*Max Pressure Allowed @ Previous Casing Shoe =		2350	psi *Assumes 1psi/ft frac gradient

**From:** Robert Clark  
**To:** Mason, Diana  
**Date:** 11/3/2008 11:56 AM  
**Subject:** RDCC short turn-around response

**CC:** Anderson, Tad; Mcneill, Dave; Wright, Carolyn

The following comments are submitted in response to RDCC short turn-around item **RDCC #9933**.

**RDCC #9933, Comments begin:** The XTO Energy, Inc. proposal to drill the COP 16-8-18-11 wildcat well, in Emery County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to R307-401: Permit: Notice of Intent and Approval Order, of the Utah Air Quality Rules. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

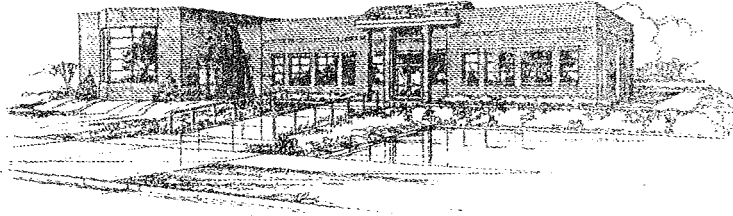
The proposed project, in Emery County, is also subject to R307-205-5: Fugitive Dust, of the Utah Air Quality Rules, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).  
**Comments end.**

Robert Clark  
Division of Air Quality  
801-536-4435

# SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

Doug Allen  
CHAIRMAN

William D. Howell  
EXECUTIVE DIRECTOR



375 SOUTH CARBON AVE.  
P.O. DRAWER 1106  
PRICE, UTAH 84501  
(435) 637-5444  
FAX (435) 637-5448

RECEIVED

NOV 25 2008

DIV. OF OIL, GAS & MINING

Federal Action \_\_\_\_\_ State Action \_\_\_\_\_ Approved  
Other (indicate) \_\_\_\_\_

(x) Yes ( ) No

**Applicant or State Agency Name/Address:**

Oil, Gas & Mining

1594 West North Temple #1210

SLC, UT 84114

Name Diana Mason

Phone 801-538-5312

**Title/Project Description:** Application for Permit to Drill

COP 16-8-11 well (wildcat) on Fee lease on Gentry Mtn, Emery County. Exact location is T16S,  
R8E, Sec. 18.

[ ] No Comment

[ ] See comment below

11/12/08

**Comments:** Favorable comment recommended with expression of caution to protect water sources.

The general area surrounding the location of this proposed wildcat well is known locally to  
have several natural water sources. SEUALG advises that all precautions be taken to avoid  
any adverse effects on either surface or sub surface waters.

Lorraine Benzhill

SEUALG

11/20/08

DATE



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

January 22, 2009

XTO Energy, Inc.  
382 CR 3100  
Aztec, NM 87410

Re: COP 16-8-18-11 Well, 1210' FNL, 325' FWL, NW NW, Sec. 18, T. 16 South, R. 8 East, Emery County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30761.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Emery County Assessor



Operator: XTO Energy, Inc.  
Well Name & Number COP 16-8-18-11  
API Number: 43-015-30761  
Lease: Fee

Location: NW NW Sec. 18 T. 16 South R. 8 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

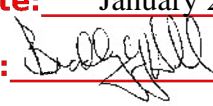
#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

5. The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. You will be required to comply with any applicable recommendations resulting from this review.
6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
7. Surface casing shall be cemented to the surface.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>8. WELL NAME and NUMBER:</b> COP 16-8-18-11			
<b>PHONE NUMBER:</b> 505 333-3159 Ext		<b>9. API NUMBER:</b> 43015307610000			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1210 FNL 0325 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 18 Township: 16.0S Range: 08.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT			
		<b>COUNTY:</b> EMERY			
		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
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<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/22/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: _____       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> XTO hereby requests a one year extension on the State Permit for the referenced well.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>					
<b>Date:</b> <u>January 21, 2010</u>					
<b>By:</b> 					
<b>NAME (PLEASE PRINT)</b> Eden Fine	<b>PHONE NUMBER</b> 505 333-3664	<b>TITLE</b> Permitting Clerk			
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/15/2010				

**RECEIVED** January 15, 2010



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43015307610000

**API:** 43015307610000

**Well Name:** COP 16-8-18-11

**Location:** 1210 FNL 0325 FWL QTR NWNW SEC 18 TWNP 160S RNG 080E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 1/22/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Eden Fine

**Date:** 1/15/2010

**Title:** Permitting Clerk **Representing:** XTO ENERGY INC

**Date:** January 21, 2010

**By:** 

**RECEIVED** January 15, 2010

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<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 01/11/2011 <b>By:</b>																																
<b>NAME (PLEASE PRINT)</b> Krista Wilson	<b>PHONE NUMBER</b> 505 333-3647	<b>TITLE</b> Permitting Tech																														
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/10/2011																														



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43015307610000

**API:** 43015307610000

**Well Name:** COP 16-8-18-11

**Location:** 1210 FNL 0325 FWL QTR NWNW SEC 18 TWP 160S RNG 080E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 1/22/2009

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- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
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- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Krista Wilson

**Date:** 1/10/2011

**Title:** Permitting Tech **Representing:** XTO ENERGY INC

**Date:** 01/11/2011

**By:**

**RECEIVED** January 10, 2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/1/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> XTO Energy hereby requests a one (1) year extension of the Staet APD for the referenced well.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 12/19/2011 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Krista Wilson		<b>PHONE NUMBER</b> 505 333-3647			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permitting Tech			
<b>DATE</b> 12/9/2011					



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43015307610000

**API:** 43015307610000

**Well Name:** COP 16-8-18-11

**Location:** 1210 FNL 0325 FWL QTR NWNW SEC 18 TWNP 160S RNG 080E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 1/22/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Krista Wilson

**Date:** 12/9/2011

**Title:** Permitting Tech **Representing:** XTO ENERGY INC

**RECEIVED** Dec. 09, 2011



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

March 4, 2013

XTO Energy Inc.  
382 Road 3100  
Aztec, NM 87410

Re: APD Rescinded – COP 16-8-18-11, Sec. 18, T. 16S, R. 8E  
Emery County, Utah API No. 43-015-30761

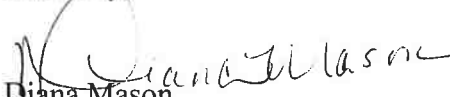
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on January 22, 2009. On January 21, 2010 and December 19, 2011 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective March 4, 2013.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,



Diana Mason

Environmental Scientist

cc: Well File  
Brad Hill, Technical Service Manager



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

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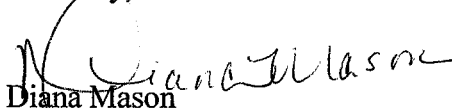
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